JasonShao

Software Engineer

WORK EXPERIENCE

Facebook

Software Engineer May '15 - Aug '15 Menlo Park

Coursera

Software Engineer Aug '14 - Dec '14 Mountain View

LinkedIn

Software Engineer Jan '14 - Apr '14 Mountain View

IBM

JVM Developer May '13 - Aug '13 Ottawa Added a new JSON data type into MySQL. Built new SQL operators and functions with standard regex features. Implemented a random query generator to run queries generated from a YACC grammar file.

Reduced Redshift warehouse disk usage by 75% using LZO compression. Implemented cross-pipline dependencies for Coursera's daily ETL. Created ETL pipelines for Amplitude (eventing tool) and RelateIQ.

Coded machine learning algorithms on Apache Spark's MLLib. Analyzed graph and query performance differences between Spark (Shark) and Hadoop MapReduce (Pig and Hive).

Designed the "idleness benchmark" to analyze the heap behaviour of a periodic JVM. Modified Java Management Extensions code for multitenancy support in Java 7 (JNI). Fixed thread-attach defects.

CONTACT

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SKILLS

Programming: C, C++, Python, Java (JNI), Scala

Big data: Cassandra, Hadoop MapReduce, Hive, Pig, Spark, RedShift

Database: MySQL, PostgreSQL, MongoDB

Web: HTML, CSS, PHP, Django, Javascript (Underscore.js and jQuery)

Hardware: VHDL and assembly (ARM and MIPS)

Math: R, Matlab, Octave, Maple

PERSONAL PROJECTS

AP I(tems)

Aug '15 - Sep '15

Developed http://ap.hpp3.me for the Riot Games API Challenge 2.0. The website visualizes statistical changes between two different game patches.

Tradeln

Feb '14 - Mar '14

Created front-end for LinkedIn's internal trading platform as a HackDay project. The web app used Flask, SQLAlchemy, and Bootstrap.

Manga Subscriber

Sep '13 - Jan '14

Developed and pubished a Google Chrome extension to the Google Chrome store that enables manga subscriptions and notifications.

Scribbler Robot

Sep '12 - Dec '12

Programmed robot for obstacle detection using the Python Myro library (achieved 98%).

EDUCATION

University of Waterloo Sep '12 - Present

Bachelor of Software Engineering

HOBBIES

Contests:

Hacker Rank, Top Coder, Project Euler, Putnam

Activities:

Badminton, Skiing, Piano